


## Nexus S (GT-I902x)

	<b>Device</b>	Nexus S (GT-I902x)
	<b>Manufacturer</b>	Google/Samsung
	<b>Release date</b>	December 2010
	<b>Codename</b>	crespo
	<b>Status</b>	Replicant: Not supported anymore Last Replicant version: Replicant 4.2 libsamsung-ipc: still supported libsamsung-ril: still supported
	<b>Variants</b>	GSM: GT-I9020, GT-I9020A, GT-I9023
	<b>Latest images</b>	<a href="#">Replicant 4.2_0004</a>
	<b>Replicant Status</b>	The device has a modem that is not isolated. Because of that, the Replicant project isn't interested in officially supporting that device anymore until that issue is fixed. More details on the issue and how to potentially fix it are available in the <a href="#">Exynos3110ModemIsolation</a> wiki page.

However even if that issue isn't fixed or can't be fixed, the Replicant project still wants to collaborate with other projects or people wanting to add support for it in various other projects.

To make it easier for other projects to support that device, Replicant can still try to make sure that libsamsung-ipc and libsamsung-ril work for that device.

It's also still possible to build Replicant 4.2, which support this device with a recent libsamsung-ipc and libsamsung-ril.

To do that you need to install Trisquel 7, which is not supported anymore by Trisquel.

It's possible to do that from within Parabola with debootstrap and run the resulting rootfs in lxc through libvirt.

### Replicant 4.2 status

[Replicant 4.2 status](#)

### Replicant 4.2 installation

[Nexus S \(GT-I902x\) installation](#)

### Replicant 4.2 usage

- [Nexus S \(GT-I902x\) compass calibration](#)

### Replicant 4.2 build

[Nexus S \(GT-I902x\) build](#)

### Replicant development

- [Nexus S \(GT-I902x\) serial research](#)
- [Exemplary serial setup](#)

### Freedom, privacy and security evaluation

See [NexusSI902xPrivacySecurityEvaluation](#) for more details.

## Research

Details about the S5PC110 hardware design used in the Nexus S (GT-I902x): [S5PC110HardwareDesign](#)

### Hardware table

Component	Name	Status	Documentation
SoC	Samsung S5PC110/S5PV210	Linux kernel support	
GPU	Imagination Technologies PowerVR SGX540	Linux kernel support, proprietary userspace	
Audio Codec	Wolfson WM8994	Linux kernel support (ALSA), free userspace	<a href="#">WM8994_Rev3.0.pdf</a>
Modem	Intel XMM6160	Free userspace implementation: <a href="#">Samsung-RIL/libsamsung-ipc</a>	<a href="#">mobile-xmm-6160-brief.pdf</a>
Wi-Fi	Broadcom BCM4329	Linux kernel support, proprietary loaded firmware	
Bluetooth	Broadcom BCM4329	Linux kernel support, proprietary loaded firmware	
NFC	NXP PN544	Linux kernel support, free userspace, proprietary loaded firmware	<a href="#">75016890.pdf</a>
GPS	Broadcom BCM4751	Proprietary userspace, proprietary loaded firmware, no free implementation: <a href="#">BCM4751</a>	<a href="#">BCM4751</a>
Accelerometer	STMicroelectronics KR3DM	Linux kernel support, free userspace	
Compass	Asahi Kasei AKM8973	Linux kernel support, free userspace	<a href="#">AK8973.pdf</a>
Gyroscope	STMicroelectronics K3G	Linux kernel support, free userspace	
Light	Sharp GP2A	Linux kernel support, free userspace	
Proximity	Sharp GP2A	Linux kernel support, free userspace	
Camera (back)	Samsung S5K4ECGX	Linux kernel support, free userspace	
Camera (front)	Samsung S5KA3DFX	Linux kernel support, free userspace	
Touchscreen	Atmel MXT224	Linux kernel support	
Display	NT35580/TL2796	Linux kernel support	

## References

- [Nexus S \(GT-I902x\) Service Manual and Schematics](#)
- [S5PC110 User Manual](#)

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## Files

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